



DIVISION OF UNDERGROUND STORAGE TANKS

TECHNICAL GUIDANCE DOCUMENT - 009

EFFECTIVE DATE - JANUARY 14, 1992

REVISED - JANUARY 1, 1994

REVISED - AUGUST 1, 1996

RE: REQUIREMENTS TO TREAT PETROLEUM CONTAMINATED SOIL GENERATED FROM RELEASES FROM UNDERGROUND STORAGE TANKS.

The purpose of this Technical Guidance Document (TGD) is to provide the Responsible Party (RP) the requirements for the treatment of petroleum contaminated soil generated at underground storage tank (UST) sites. Tennessee Code Annotated (T.C.A) (68-215-103(16) defines Responsible Party as the owner and/or operator of a petroleum site or any person who at the time of the release which caused the contamination was an owner and/or operator of a petroleum underground storage tank.

The Division of Underground Storage Tanks is responsible for permitting the treatment of petroleum contaminated soils from UST systems if:

The soil is treated on the site of generation, or

The soil is treated on a site owned by the Responsible Party owner or their subsidiary

An Application to Treat Petroleum Contaminated Soil shall be completed and submitted to the appropriate UST field office. Treatment may be either by Mobile Thermal Treatment or Aeration. Choose the appropriate application based on the treatment method. The approved application shall be retained by the RP. If the application contains false information, the case may be referred to the Tennessee Division of Solid Waste Management (SWM). The Division of Solid Waste Management permits the treatment of petroleum contaminated soil from UST systems when:

1. The soil is treated on a site owned by a Third Party, or
2. The soil is generated in another state and is treated in Tennessee, or
3. The soil is not treated in accordance with the approved application.

Documentation for treatment and/or disposal of soil (i.e. Application to Treat Petroleum Contaminated Soil, Solid Waste Permits, Landfill Disposal Manifests, Permitted Thermal Treatment Facility Manifests, etc.) shall be sent to the appropriate UST field office.



August 1996

STATE OF TENNESSEE
DIVISION OF UNDERGROUND STORAGE TANKS
APPLICATION TO TREAT PETROLEUM CONTAMINATED SOIL BY
MOBILE THERMAL TREATMENT

The Responsible Party (RP) of the underground storage tank (UST) system shall submit the **original** application to the appropriate Division of Underground Storage Tanks field office. Approval must be obtained prior to treatment. Tennessee Code Annotated (T.C.A.) '68-215-103(16) defines Responsible Party (RP) as the owner and/or operator of a petroleum site or any person who at the time of the release which caused the contamination was an owner and/or operator of a petroleum underground storage tank.

REQUIREMENTS:

1. The application shall be submitted within 45 days of the laboratory analysis being performed or the UST system removal. Treatment shall be implemented within 30 days from the approval. Technical Guidance Document-005 shall be followed prior to and after treatment.
2. Contaminated soil shall be treated on the site of generation or on a site owned by the RP or a subsidiary of the RP. A copy of the approved application shall be kept by the RP. The RP shall contact the Division of Solid Waste Management (SWM) to obtain a Solid Waste Processing Facility Permit for soil treated on a site owned by a Third Party.
3. The Division will not approve the treatment of petroleum contaminated soil within 100 feet of any residence, business or other place of human occupancy.
4. In zoned areas, the local Zoning Board shall be contacted to determine if the treatment site is acceptable.
5. An impermeable barrier shall be placed between the contaminated soil and the ground surface. Asphalt and concrete are not impermeable barriers. The barrier shall prevent contamination of the surrounding area. The perimeter shall be bermed to prevent surface runoff.
6. The untreated soil pile shall be covered with plastic prior to precipitation events.
7. **A SITE MAP IS REQUIRED. THE APPLICATION WILL NOT BE PROCESSED WITHOUT ONE.** The site map must include the location and size of the treatment area; the location of any nearby residence, business, or other dwelling; and any nearby water body (e.g. streams, creeks, ponds, etc.).
8. The most cost efficient method shall be used for soil treatment.

APPROVAL OF THIS APPLICATION IS FOR SOIL TREATMENT BY MOBILE THERMAL TREATMENT ONLY. All fund eligible activities shall be reasonable and justifiable in

order to receive reimbursement from the Petroleum Underground Storage Tank Fund.

Application to Treat Petroleum Contaminated Soil By Facility ID # ____ - ____ - ____ - ____ - ____
Mobile Thermal Treatment

Date _____

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COMPLETE THE FOLLOWING:

1. Facility ID Number: ____ - ____ - ____ - ____ - ____

2. RP of the UST System: _____

Phone Number: (____) ____ - _____

3. Facility generating the contaminated soil: _____

Address: _____

4. Name of company providing mobile thermal treatment _____

Address _____

5. Property owner of the treatment site: _____

6. If treatment site is other than site of generation, deed is attached. Yes _____

7. Address of the treatment site: _____

8. Estimated quantity of contaminated soil: _____ cubic yards

9. Distance to nearest residence, business, or other place of human occupancy: _____ feet.
(Not within 100 feet)

10. Area zoned. Yes ____ No ____
Treatment site zoning: _____


11. Zoning agency contacted:

Person contacted _____
Office _____
Date _____

The zoning agency allows the treatment of petroleum contaminated soil on this property.
Yes ____ No ____

Application to Treat Petroleum Contaminated Soil By Facility ID # ____ - ____ - ____ - ____ - ____
Mobile Thermal Treatment
Date _____

12. The space provided below is for the site map. Refer to item 7 of the Requirements.

A large, empty rectangular box with a thin black border, intended for a site map. It occupies the majority of the page area below the instruction.

Signature Page

A signature page, as shown below shall be attached to the *Application to Treat Petroleum Contaminated Soil*. The page shall be signed by the RP (or authorized representative within the organization) and a registered professional geologist under the Tennessee Geologist Act (T.C.A. ' 62-36-101 et seq.), or registered professional engineer under the Tennessee Architects, Engineers, and Landscape Architects, and Interior Designers Law and Rule (T.C.A. ' 62-2-101 et seq.).

We, the undersigned, certify under the penalty of law, including but not limited to penalties for perjury, that the information contained in this report form and on any attachments is true, accurate and complete to the best of our knowledge, information and belief. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for intentional violations.

UST System RP or RP's authorized
representative (Print name)

Signature

Date

Title (Print)

P.E. or P.G. (Print name)

Signature

Date

TN Registration #

Note: Each of the above signatures shall be notarized separately with the following statement.

STATE OF _____ COUNTY OF _____

Sworn to and subscribed before me by _____ on this date _____. My commission
expires _____.

Notary Public (Print Name)

Signature

Date

Stamp/Seal

August 1996



STATE OF TENNESSEE
DIVISION OF UNDERGROUND STORAGE TANKS
APPLICATION TO TREAT PETROLEUM CONTAMINATED SOIL BY
AERATION

The Responsible Party (RP) of the underground storage tank (UST) system shall submit the **original** application to the appropriate Division of Underground Storage Tanks field office. Approval must be obtained prior to treatment. Tennessee Code Annotated (T.C.A.) '68-215-103(16) defines Responsible Party (RP) as the owner and/or operator of a petroleum site or any person who at the time of the release which caused the contamination was an owner and/or operator of a petroleum underground storage tank.

REQUIREMENTS:

1. The application shall be submitted within 45 days of the laboratory analysis being performed or the UST system removal. Treatment shall be implemented within 30 days of the approval. Technical Guidance Document 005 shall be followed prior to and after treatment.
2. Contaminated soil shall be treated on the site of generation or on a site owned by the RP or a subsidiary of the RP. A copy of the approved application shall be kept by the RP. The RP shall contact the Division of Solid Waste Management (SWM) to obtain a Solid Waste Processing Facility Permit for soil treated on a site owned by a Third Party.
3. If contaminated soil is transported from the site of generation for treatment, a copy of the deed for the treatment site shall be attached.
4. The Division of UST will not approve the treatment of petroleum contaminated soil within a 100-year flood plain or wetland.
5. The Division will not approve the treatment of petroleum contaminated soil within 100 feet of any residence, business or other place of human occupancy.
6. In zoned areas, the local Zoning Board shall be contacted to determine if the treatment site is acceptable.
7. An impermeable barrier shall be placed between the contaminated soil and the ground surface. Asphalt and concrete are not impermeable barriers. The barrier shall prevent contamination of the surrounding area. The perimeter shall be bermed to prevent surface runoff. The soil layer shall not exceed two feet.
8. The soil pile shall be covered with plastic prior to precipitation events.
9. **A SITE MAP IS REQUIRED. THE APPLICATION WILL NOT BE PROCESSED WITHOUT ONE.** The site map shall include the location and size of the treatment area; the location of any nearby residence, business, or other dwelling; and any nearby water body (e.g. streams, creeks, ponds, etc.).

10. The treatment process shall not damage the impermeable barrier.

Application to Treat Petroleum Contaminated Soil by Aeration Facility ID # ___ - ___ - ___ - ___ - ___

Date _____

Page 2 of 4

11. The most cost efficient method shall be used for soil treatment.

APPROVAL OF THIS APPLICATION IS FOR SOIL TREATMENT ONLY. All fund eligible activities shall be reasonable and justifiable in order to receive reimbursement from the Petroleum Underground Storage Tank Fund.

COMPLETE THE FOLLOWING:

1. Facility ID Number: ____ - ____ - ____ - ____ - ____
2. RP of the UST system: _____
Phone Number: (____) ____ - ____
3. Facility generating the contaminated soil: _____
Address: _____

4. Property owner of the treatment site: _____
5. If treatment site is other than site of generation, deed is attached. Yes _____
6. Address of the treatment site: _____

7. Estimated quantity of contaminated soil: _____ cubic yards
8. Method of soil treatment: _____

If tilling, indicate frequency: _____

Describe type of impermeable barrier: _____

Thickness of soil pile: _____ feet. (Maximum thickness - 2 feet.)

Describe type of berm: _____
9. Distance to nearest residence, business, or other place of human occupancy: _____ feet.
(Not within 100 feet)
10. Distance to nearest water body: _____ feet

Application to Treat Petroleum Contaminated Soil by Aeration Facility ID # ____ - ____ - ____ - ____ - ____

Date _____


Page 3 of 4

11. Property is within a 100-year flood plain or wetland. Yes ____ No ____
12. Area zoned. Yes ____ No ____
Treatment site zoning: _____
13. Zoning agency contacted: _____

Person contacted _____
Office _____
Date _____

The zoning agency allows the treatment of petroleum contaminated soil on this property.
Yes___ No___

14. The space provided below is for the site map. Refer to item 9 of the Requirements.



Application to Treat Petroleum Contaminated Soil by Aeration Facility ID#___-___-___-___-___-___

Date _____

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Signature Page

A signature page, as shown below shall be attached to the *Application to Treat Petroleum Contaminated Soil*. The page shall be signed by the RP (or authorized representative within the organization). If more than 100 cubic yards of material was overexcavated, the signature page shall also be signed by a registered professional geologist under the Tennessee Geologist Act (T.C.A. ' 62-36-101 et seq.), a registered professional engineer under the Tennessee Architects, Engineers, and Landscape Architects, and Interior Designers Law and Rule (T.C.A. ' 62-2-101 et seq.) or, an Approved Corrective Action Contractor (Rule 1200-1-15.09(15)).

We, the undersigned, certify under the penalty of law, including but not limited to penalties for perjury, that the information contained in this form and on any attachments is true, accurate and complete to the best of our knowledge, information and belief. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for intentional violations.

| | | |
|--|--------------------|---------------|
| _____ UST System RP or RP’s authorized representative (Print name) | _____ Signature | _____ Date |
|--|--------------------|---------------|

Title (Print)

| | | |
|--|--------------------|---------------|
| _____ P.E., P.G., or CAC (Print name) | _____ Signature | _____ Date |
|--|--------------------|---------------|

| | |
|----------------------------|------------------------------|
| _____ TN Registration # | _____ CAC Company (Print) |
|----------------------------|------------------------------|

Note: Each of the above signatures shall be notarized separately with the following statement.

STATE OF COUNTY OF

Sworn to and subscribed before me by on this date _____. My commission expires _____.

| | | |
|-------------------------------------|--------------------|---------------|
| _____ Notary Public (Print Name) | _____ Signature | _____ Date |
|-------------------------------------|--------------------|---------------|

Stamp/Seal